

Model 583 gel dryer



Introduction

The Model 583 Gel Dryer is designed to dry sequencing and protein gels fast! With three pre-programmed drying cycles, the Model 583 provides optimal drying conditions for different types of gels. The exclusive design incorporates a floating heating element in the lid, to heat the gel from the top, while the vacuum pulls gel liquids from the bottom.

Features

The Model 583 Gel Dryer has the following features:

- Drying cycles are user programmable for greater flexibility and repeatability
- Microprocessor controlled temperature
- Gels can be viewed at any time during the drying cycle

- Heat and vacuum pressure are evenly distributed across the gel
- The dryer automatically seals when the lid is closed

Operation

1. Turn on the power switch.
2. Select the drying cycle.
3. Set the cycle temperature.
4. Set the cycle time.
5. Place the gel in the dryer.
6. Turn on the vacuum pump as directed in the pump's instruction manual.
7. Start the drying cycle.
8. Adjust the temperature or time at any time during the drying cycle.
9. When the cycle is complete and the gel is dry, break the seal on the Sealing Gasket before turning off the vacuum pump.
10. Turn off the vacuum pump.
11. To repeat the current cycle and settings, simply press the **START/STOP** key.

Gel Preparation Techniques

Techniques for drying the following gels are discussed in this section:

- Sequencing Gels
- Acrylamide Protein Gels $\leq 14\%$
- Gradient gels, gels $\geq 15\%$, and 1.5 mm thick gels

Gels dried prior to autoradiography require a non-porous plastic film cover such as Saran WrapTM. The film, which prevents the Sealing Gasket from becoming contaminated, can be peeled away and discarded as radioactive waste.

To prevent the porous Gel Support from becoming contaminated with radioactivity, always use two sheets of filter paper. Use one sheet for the gel and the second sheet to absorb contamination from the gel.

For gels without radioactive label, a single sheet of filter paper for gel backing is all that is required.



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